

HEALTH ANALYSIS

Emergency Services Analysis

A summary of key HA products focused on improving resourcing for ambulatory urgent care and emergency department services

The Health Analysis (HA) Department has been engaged in a variety of projects that aim to improve understanding of the patterns associated with emergency services. In addition, these products determine cost savings strategies and methods to improve recapture from the purchased care network. HA's analytic capabilities support a wide array of customers from the U.S. Fleet Surgeon to BUMED M3, and NAVMED East to generate actionable information to improve access to direct care resources. Their capabilities and products also have the capability to support the transition to DHA, providing the same robust analysis for all services.



GIS Comparison

- Analyzed Operational Forces and BSO-18 emergency department (ED) utilization using geospatial information to examine potential relationships between service member residence and location of ED use.
- Identifies purchased care and direct care ED use, the cost incurred for each facility and if the visit was for non-emergent or emergent reasons.

Primary and Urgent Care

- Analyzed Operational Forces urgent care utilization at purchased care facilities to determine trends to guide direct care recapture efforts.
- Compares the number of claims, cost per visit, place of service, primary diagnosis, and provider specialty.



Marine Centered Medical Home

- Analyzed MCMH ED utilization for January 2013-July2013. Compares the number of visits, location of services, and chief complaint diagnoses among MCMH and non-MCMH enrollees.
- ED utilization of the MCMH and non-MCMH enrollee populations were also compared to enrollees at the same facilities the year prior to the initiation of the MCMH program to evaluate program impact.



Medical Home Port Support

- In support of the Patient Centered Medical Home Port (MHP) analytic requirements, HA analyzed ED utilizers that had 20 or more visits at a Navy MTF during a single fiscal year. The list contained the total cost per high utilizer and enrollment information that securely disseminated to the MHP Champion at each facility.
- High utilizers were contacted by representatives from the MTF to encourage them to seek treatment in an alternative setting and help reduce the number of unnecessary ED visits. HA has the capability to produce standardized analyses across the region with the ability to drill down on behalf of individual MTFs.

HEALTH ANALYSIS

Emergency Department High Utilization Analysis

Summary

The Health Analysis Experiment (HA) provided support for the Medical Home Port Champions at Naval Hospital Camp Lejeune, Naval Hospital Jacksonville, Naval Medical Center Portsmouth, and Naval Hospital Pensacola to reduce high utilization of the Emergency Department (ED). HA developed a spreadsheet accessing Military Health System (MHS) data to identify patients that had visited an ED 20 or more times in Fiscal Year 2012 and the associated costs. This assessment and outreach raised awareness across the facilities of Navy Medicine East and informed initiatives to reduce ED expenses at Navy Military Treatment Facilities (MTFs). HA's analytic resources and capabilities can provide this assessment for MTFs throughout the DOD enterprise, as well as other quality improvement activities to improve patient outcomes, reduce costs, and guide policy development.

The Medical Home Port Program Management Office within the Bureau of Medicine and Surgery requested HA to determine the ED utilizers that had 20 or more visits at a Navy MTF during Fiscal Year 2012. The list, which contained the total cost per high user and enrollment information, was securely disseminated to the Medical Home Port Champion at each institution to contact these patients and encourage them to seek treatment in an alternative setting as appropriate.

Sample Spreadsheet

Sample Navy MTF ED Utilization-FY2012											
ED Visit Number	ED Visit Date	ED Visit Month	ED Visit Year	ED Visit Day	ED Visit Hour	ED Visit Minute	ED Visit Second	ED Visit Day of Month	ED Visit Month of Year	ED Visit Year of Month	ED Visit Total Cost
1	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
2	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
3	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
4	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
5	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
6	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
7	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
8	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
9	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
10	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
11	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
12	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
13	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
14	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
15	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
16	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
17	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
18	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
19	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
20	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
21	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
22	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
23	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
24	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
25	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
26	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
27	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
28	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
29	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
30	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
31	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
32	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
33	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
34	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
35	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
36	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
37	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
38	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
39	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
40	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
41	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
42	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
43	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
44	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
45	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
46	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
47	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
48	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
49	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
50	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
51	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
52	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
53	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
54	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
55	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
56	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
57	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
58	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
59	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
60	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
61	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
62	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
63	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
64	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
65	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
66	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
67	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
68	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
69	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
70	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
71	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
72	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
73	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
74	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
75	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
76	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
77	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
78	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
79	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
80	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
81	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
82	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
83	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
84	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
85	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
86	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
87	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
88	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
89	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
90	2012-01-01 00:00:00	01	2012	1	00	00	00	1	01	2012-01	\$0.00
91	2012-01-01 00:00:00	01	2012</								